



Critical Minerals Standards Coordination (CMSC)

DRAFT WORKSHOP AGENDA

September 23, 2026 from 8:30 – 5:15 pm | September 24, 2026 from 9:00 – 5:00 pm
[20 F Street NW Conference Center](#), Washington, DC 20001

DAY 1 8:30 – 5:15 PM	
TIME	DISCUSSION TOPIC AND SPEAKER
8:00 – 8:30 am	Check-in & Networking
Session 1	Workshop Opening
8:30 – 8:45 am	DOE Welcome – <i>TBA, U.S. Department of Energy</i>
8:45 – 9:00 am	Workshop Objectives – Christine Bernat , ANSI
9:00 – 9:15 am	Setting the Stage: The Critical Minerals Standards Landscape – <i>Christine Bernat, ANSI</i> A summary of the ANSI CMSC Standards Webinars , results from the Request for Information, and demo of the Standards Landscape (TBA)
Session 2	The Critical Minerals Ecosystem: Where Are We & What Does It Take to Build Markets?
9:15 – 10:15 am	Critical Minerals Landscape: Supply Chains and Standards – <i>Moderated by TBA</i> This panel brings together perspectives from across the critical minerals ecosystem to examine the current landscape of supply chains and standards. Panelists will provide views from upstream, midstream, and downstream activities, describing how materials move through the value chain and how standards are applied at different stages. The discussion will consider how market and industry conditions influence production, processing, and use of materials, and where standards are currently supporting consistency and interoperability. Panelists may also reflect on where standards are less developed or applied unevenly across the value chain. This panel establishes a shared understanding of the current ecosystem and standards landscape to inform subsequent discussions on cross-cutting topics and lifecycle deep dives. Panelists: - TBA (Upstream) - TBA (Midstream) - TBA (Downstream) - TBA (Traceability, eLabeling, and Circular Economy Expert)
10:15 – 10:30 am	Break

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10:30 – 11:30 pm	Global Regulatory & Trade Environment Panel – Moderated by Mary Saunders, ANSI This panel examines the global regulatory and trade environment affecting critical minerals supply chains, with perspectives from industry and U.S. government participants. Panelists will discuss how regulatory frameworks, trade conditions, and compliance requirements influence the movement, processing, and use of materials across jurisdictions. The role of standards will be considered alongside traditional conformity assessment approaches, including testing, inspection, and certification, in supporting consistency and facilitating market access. The discussion will also consider areas where alignment across systems may be strengthened and where participants have observed opportunities for greater coordination and leadership within the global ecosystem. Panelists: - TBA - TBA - TBA - TBA
11:30 – 12:00 pm	OECD Traceability Efforts & Regulatory Tracking – Name, Organization TBA The OECD, in collaboration with the International Energy Agency (IEA), has been actively promoting traceability as a core tool for building resilient, responsible, and diversified critical mineral supply chains. OECD's 2025 report The Role of Traceability in Critical Mineral Supply Chains includes a practical eight-step roadmap, from setting policy objectives to building trust mechanisms, which can help ensure traceability systems are fit for purpose and aligned with the realities of global supply chains.
12:00 – 12:45 pm	Lunch (provided)
12:45 – 1:00 pm	Deep-Dive Session Objectives – Christine Bernat, ANSI
Session 3	Crosscutting Areas Objective: Discussion of traceability, labeling, data systems, and recycling considerations across supply chains, including upstream, midstream and downstream. Questions: Desired End-State: What are stakeholders seeking to achieve, and how do needs differ across upstream, midstream, and downstream activities? What capabilities are currently in place, and what additional capabilities are needed to support consistent implementation? Regulatory, Trade, & Conformity Assessment: How do regulatory frameworks, trade requirements, and conformity assessment approaches (e.g., testing, verification, inspection, certification, audit) affect implementation? Where do stakeholders encounter inconsistencies or challenges across jurisdictions or systems? Implementation Experience & Barriers: What challenges have stakeholders encountered when implementing measures in practice? What factors (e.g., technical, operational, or commercial) limit adoption across different stages of the value chain? Standards in Play & Gaps: What standards or frameworks currently support this area, and how are they applied? Where are gaps, overlaps, or inconsistencies observed across existing standards or systems? Alignment & Interoperability: Where is alignment needed between standards, regulatory frameworks, and industry practices to support this area? What challenges exist in ensuring interoperability across systems, data formats, or supply chain participants? Data & Pre-Standardization Needs: What data, definitions, or technical inputs are needed to support effective systems? Are there areas where additional work is needed before standards can be developed or more widely implemented?
1:00 – 2:30 pm	Traceability Deep-Dive Discussion – Moderated by TBA Examine traceability across critical minerals supply chains, including its potential benefits, implementation challenges, and practical experiences from upstream, midstream, and downstream stakeholders. Explore factors that affect the adoption of traceability measures and identify lessons learned from current approaches. Consider the role of standards in supporting traceability and where gaps or opportunities for alignment are observed.
2:30 – 2:45 pm	Break

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2:45 – 4:00 pm	e-Labeling Deep-Dive Discussion – Moderated by TBA Examine the use of e-labeling and related data systems to communicate information about critical minerals across supply chains. Explore current approaches to labeling, data carriers, and digital systems, including how they are applied by upstream, midstream, and downstream stakeholders. Consider implementation challenges, lessons learned, and the role of standards in supporting consistency, interoperability, and access to information.
4:00 – 5:00 pm	Circular Economy Deep-Dive Discussion – Moderated by TBA Examine approaches to circular economy practices in critical minerals supply chains, including recycling, reuse, and material recovery. Explore current methods and systems, including how they are applied by upstream, midstream, and downstream stakeholders. Consider implementation challenges, lessons learned, and the role of standards in supporting consistency, material recovery, and integration across the value chain.
5:00 – 5:15 pm	Day 1 Closing & Day 2 Objectives – Christine Bernat, ANSI
6:00 – 7:00 pm	Informal / Unsponsored Networking Social – The Dubliner

DAY 2 | 9:00 – 5:00 PM

TIME	DISCUSSION TOPIC AND SPEAKER
8:30 – 9:00 am	Check-in & Networking (<i>continental breakfast provided</i>)
9:00 – 9:15 pm	Day 1 Recap & Day 2 Objectives – Christine Bernat, ANSI
Session 5	Upstream Deep-Dive: Extraction & Mining Examine upstream activities in critical minerals supply chains, including exploration, extraction, and initial handling of minerals and materials. Explore current practices, systems, and requirements related to resource development and early-stage production, including how they connect to midstream and downstream processing and manufacturing needs. Consider implementation challenges, lessons learned, and the role of standards in supporting material characterization, consistency, and alignment across the value chain.
9:15 – 10:30 pm	Extraction & Mining Deep Dive Discussion – Moderated by TBA Questions: Desired End-State: What outcomes are stakeholders seeking to achieve in upstream activities, including exploration, extraction, and initial processing? How do upstream requirements connect to midstream processing and downstream manufacturing needs? Regulatory, Trade, & Conformity Assessment: How do regulatory frameworks, permitting processes, trade requirements, and conformity assessment approaches (e.g., testing, inspection, certification) affect upstream activities? Where do differences across jurisdictions or systems create challenges for implementation or alignment with downstream requirements? Implementation Experience & Barriers: What challenges have stakeholders encountered in upstream operations, including resource development, material handling, and early-stage processing? What factors (e.g., technical, operational, or commercial) affect the ability to provide consistent inputs to midstream and downstream partners? Standards in Play & Gaps: What standards or frameworks currently support upstream activities, including material characterization and reporting? Where are gaps, overlaps, or inconsistencies observed, particularly in how upstream outputs align with downstream specifications? Alignment & Interoperability: Where is alignment needed between upstream, midstream, and downstream stakeholders to support continuity across the supply chain? What challenges arise in ensuring that materials, data, and specifications are compatible across stages? Data & Pre-Standardization Needs: What data, definitions, or technical inputs are needed to support upstream activities and their connection to later stages of the value chain? Are there areas where additional work is needed before standards can be developed or more widely implemented?
10:30 – 10:45 am	Break

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Session 6	Midstream Deep-Dive: Processing & Refining Examine midstream activities in critical minerals supply chains, including processing, refining, and the transformation of raw materials into higher-purity forms suitable for industrial use. Explore current methods, systems, and requirements, including how materials are prepared for manufacturing and how midstream processes connect upstream inputs with downstream applications. Consider implementation challenges, lessons learned, and the role of standards in supporting material specifications, quality consistency, and integration across supply chain stages.
10:45 – 12:00 pm	Processing & Refining Deep Dive Discussion – Moderated by TBA Questions: Desired End-State: What outcomes are stakeholders seeking to achieve in midstream activities, including processing, refining, and material transformation? How do midstream outputs need to align with both upstream inputs and downstream manufacturing requirements? Regulatory, Trade, & Conformity Assessment: How do regulatory frameworks, trade requirements, and conformity assessment approaches (e.g., testing, inspection, certification) affect midstream processing and refining activities? Where do differences across jurisdictions or systems create challenges for implementation or for meeting downstream specifications? Implementation Experience & Barriers: What challenges have stakeholders encountered in processing, refining, or material conversion? What factors (e.g., technical, operational, or commercial) affect the ability to consistently produce materials that meet downstream requirements? Standards in Play & Gaps: What standards or frameworks currently support midstream activities, including material specifications and quality requirements? Where are gaps, overlaps, or inconsistencies observed, particularly in how materials are defined, measured, or verified? Alignment & Interoperability: Where is alignment needed between upstream inputs and downstream product requirements to support continuity across the supply chain? What challenges arise in ensuring consistent specifications, testing methods, and data exchange across stages? Data & Pre-Standardization Needs: What data, definitions, or technical inputs are needed to support midstream activities and their connection to upstream and downstream stages? Are there areas where additional work is needed before standards can be developed or more widely implemented?
12:00 – 1:00 pm	Lunch (provided)
Session 7	Downstream Deep-Dive: Component & Product Manufacturing Examine downstream activities in critical minerals supply chains, including the integration of refined materials into components and final products. Explore current manufacturing practices, product requirements, and system-level considerations, including how downstream activities depend on upstream and midstream inputs. Consider implementation challenges, lessons learned, and the role of standards in supporting product specifications, performance requirements, and connections back to earlier stages of the value chain.
1:00 – 2:30 pm	Component & Product Manufacturing Deep Dive Discussion – Moderated by TBA Questions: Desired End-State: What outcomes are stakeholders seeking to achieve in downstream activities, including manufacturing, component production, and end use? How do downstream requirements depend on upstream inputs and midstream material specifications? Regulatory, Trade, & Conformity Assessment: How do regulatory frameworks, product requirements, trade conditions, and conformity assessment approaches (e.g., testing, inspection, certification) affect downstream applications? Where do differences across jurisdictions or systems create challenges for implementation or for accepting inputs from upstream and midstream stages? Implementation Experience & Barriers: What challenges have stakeholders encountered in integrating materials into manufacturing processes or final products? What factors (e.g., technical, operational, or commercial) affect the ability to consistently use materials that meet product and performance requirements? Standards in Play & Gaps: What standards or frameworks currently support downstream activities, including product specifications and performance requirements? Where are gaps, overlaps, or inconsistencies observed, particularly in aligning material inputs with product-level expectations?

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	5. Alignment & Interoperability: <i>Where is alignment needed between downstream requirements and upstream/midstream capabilities? What challenges arise in ensuring that material specifications, data, and performance criteria are compatible across the value chain?</i> 6. Data & Pre-Standardization Needs: <i>What data, definitions, or technical inputs are needed to support downstream applications and their connection to earlier stages of the supply chain? Are there areas where additional work is needed before standards can be developed or more widely implemented?</i>								
2:30 – 2:45 pm	Break								
2:45 – 3:15 pm	Reserved for Presentation – G7 Roadmap / DoE Strategy / Other								
Session 8	Taking Action								
3:15 – 4:15 pm	What's Next? – <i>Christine Bernat, ANSI</i> <i>This discussion builds on observations from the workshop to explore whether and how a coordinated U.S. standards strategy for critical minerals could be developed, and what considerations may be relevant to such an effort.</i> - Which areas discussed (such as upstream, midstream, downstream, or cross-cutting topics) should be considered within the scope of a coordinated effort? - If there were continued efforts to coordinate on these topics, what factors would make participation useful for your organization? - Are there areas discussed today that would be difficult to address without a more coordinated or structured approach? - What types of activities or structures (e.g., working groups, information sharing forums, targeted discussions) would be most effective for continuing the work discussed?								
4:15 – 4:45 pm	ANSI Standards Collaborative – <i>Christine Bernat, ANSI</i> Review of potential Standards Collaborative working group structure. <table> <tr> <th>Option 1</th><th>Option 2</th></tr> <tr> <td>Traceability and Data Systems</td><td>Upstream and Midstream Integration</td></tr> <tr> <td>Circular Economy and Material Recovery</td><td>Downstream Applications and Circular Economy</td></tr> <tr> <td>Value Chain Integration (Upstream–Midstream–Downstream)</td><td>Traceability, e-Labeling, and Data Systems</td></tr> </table>	Option 1	Option 2	Traceability and Data Systems	Upstream and Midstream Integration	Circular Economy and Material Recovery	Downstream Applications and Circular Economy	Value Chain Integration (Upstream–Midstream–Downstream)	Traceability, e-Labeling, and Data Systems
Option 1	Option 2								
Traceability and Data Systems	Upstream and Midstream Integration								
Circular Economy and Material Recovery	Downstream Applications and Circular Economy								
Value Chain Integration (Upstream–Midstream–Downstream)	Traceability, e-Labeling, and Data Systems								
4:45 – 5:00 pm	Key Takeaways & Closing Remarks – <i>Christine Bernat, ANSI</i>								